

Title (en)

MAGNETIC POSITION SENSOR ASSEMBLY FOR MEASUREMENT OF ROTATIONAL ANGULAR POSITION OF A ROTATING STRUCTURE

Title (de)

ANORDNUNG AUS MAGNETISCHEN POSITIONSENSOREN ZUR MESSUNG DER DREHWINKELLAGE EINER ROTIERENDEN STRUKTUR

Title (fr)

ENSEMBLE CAPTEUR DE POSITION MAGNÉTIQUE POUR MESURE DE LA POSITION ANGULAIRE DE ROTATION DE STRUCTURE ROTATIVE

Publication

EP 2715275 A4 20151230 (EN)

Application

EP 12789069 A 20120525

Priority

- US 201161489751 P 20110525
- US 2012039564 W 20120525

Abstract (en)

[origin: WO2012162603A1] A magnetic rotational position sensor assembly for measurement of a rotational angular position of a rotating structure. The sensor assembly includes a shaft member extending along a primary rotational axis for primary rotational movement in response to rotation of the rotating structure, a motion conversion member structured and configured to transform the primary rotational movement of the shaft member into secondary movement, a magnet member secured to the motion conversion member for displacement along a travel path in response to the converted secondary movement of the motion conversion member, and a non-contact magnetic sensor that senses a change in position of the magnet member by sensing a corresponding variation in the magnetic field during displacement of the magnet member along the travel path in response to rotation of the rotating structure, wherein the magnetic sensor generates an output signal representative of a relative rotational angular position of the rotating structure.

IPC 8 full level

G01D 5/14 (2006.01)

CPC (source: EP US)

G01D 5/145 (2013.01 - EP US); **G01D 2205/22** (2021.05 - EP); **G01D 2205/26** (2021.05 - EP)

Citation (search report)

- [X] EP 1830155 A1 20070905 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [X] EP 1342646 A2 20030910 - ALPS ELECTRIC CO LTD [JP]
- See references of WO 2012162603A1

Cited by

CN109211093A

Designated contracting state (EPC)

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WO 2012162603 A1 20121129; EP 2715275 A1 20140409; EP 2715275 A4 20151230; US 2012299586 A1 20121129; US 9080895 B2 20150714

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